

Mohamed Trebak

List of Publications by Year in descending order

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127
papers

9,387
citations

34076

52
h-index

43868

91
g-index

140
all docs

140
docs citations

140
times ranked

10696
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). European Journal of Immunology, 2019, 49, 1457-1973.	1.6	766
2	Stim1 and Orai1 Mediate CRAC Currents and Store-Operated Calcium Entry Important for Endothelial Cell Proliferation. Circulation Research, 2008, 103, 1289-1299.	2.0	341
3	Calcium signalling in T cells. Nature Reviews Immunology, 2019, 19, 154-169.	10.6	306
4	The mammalian TRPC cation channels. Biochimica Et Biophysica Acta - Molecular Cell Research, 2004, 1742, 21-36.	1.9	285
5	A Novel Native Store-operated Calcium Channel Encoded by Orai3. Journal of Biological Chemistry, 2010, 285, 19173-19183.	1.6	278
6	Evidence for STIM1 and Orai1 dependent storeoperated calcium influx through CRAC in vascular smooth muscle cells: role in proliferation and migration. FASEB Journal, 2009, 23, 2425-2437.	0.2	256
7	Comparison of Human TRPC3 Channels in Receptor-activated and Store-operated Modes. Journal of Biological Chemistry, 2002, 277, 21617-21623.	1.6	221
8	The non-excitabile smooth muscle: Calcium signaling and phenotypic switching during vascular disease. Pflugers Archiv European Journal of Physiology, 2008, 456, 769-785.	1.3	208
9	The TRPC3/6/7 subfamily of cation channels. Cell Calcium, 2003, 33, 451-461.	1.1	201
10	Ryanodine Receptor Blockade Reduces Amyloid- β^2 Load and Memory Impairments in Tg2576 Mouse Model of Alzheimer Disease. Journal of Neuroscience, 2012, 32, 11820-11834.	1.7	197
11	Emerging perspectives in store-operated Ca ²⁺ entry: Roles of Orai, Stim and TRP. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 1147-1160.	1.9	194
12	Endoplasmic Reticulum Stress Is Involved in Cardiac Damage and Vascular Endothelial Dysfunction in Hypertensive Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 1652-1661.	1.1	182
13	Crosstalk between calcium and reactive oxygen species signaling in cancer. Cell Calcium, 2017, 63, 70-96.	1.1	163
14	STIM1 and Orai1 mediate CRAC channel activity and are essential for human glioblastoma invasion. Pflugers Archiv European Journal of Physiology, 2013, 465, 1249-1260.	1.3	157
15	Orai3 is an estrogen receptor β -regulated Ca ²⁺ channel that promotes tumorigenesis. FASEB Journal, 2013, 27, 63-75.	0.2	157
16	Interleukin-10 Released by CD4 ⁺ CD25 ⁺ Natural Regulatory T Cells Improves Microvascular Endothelial Function Through Inhibition of NADPH Oxidase Activity in Hypertensive Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 2534-2542.	1.1	151
17	Signaling Mechanism for Receptor-activated Canonical Transient Receptor Potential 3 (TRPC3) Channels. Journal of Biological Chemistry, 2003, 278, 16244-16252.	1.6	146
18	Expression Level of the Canonical Transient Receptor Potential 3 (TRPC3) Channel Determines Its Mechanism of Activation. Journal of Biological Chemistry, 2003, 278, 21649-21654.	1.6	140

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19	Essential role for STIM1/Orai1-mediated calcium influx in PDGF-induced smooth muscle migration. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 298, C993-C1005.	2.1	137
20	Mitochondrial Ca ²⁺ signaling. , 2018, 192, 112-123.		125
21	Orai1-Mediated <i>I</i> _{CRAC} Is Essential for Neointima Formation After Vascular Injury. <i>Circulation Research</i> , 2011, 109, 534-542.	2.0	124
22	Negative Regulation of TRPC3 Channels by Protein Kinase C-Mediated Phosphorylation of Serine 712. <i>Molecular Pharmacology</i> , 2005, 67, 558-563.	1.0	121
23	Mechanism of endoplasmic reticulum stress-induced vascular endothelial dysfunction. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 1063-1075.	1.9	119
24	Complex regulation of the TRPC3, 6 and 7 channel subfamily by diacylglycerol and phosphatidylinositol-4,5-bisphosphate. <i>Cell Calcium</i> , 2008, 43, 506-514.	1.1	114
25	Interplay Between Calcium and Reactive Oxygen/Nitrogen Species: An Essential Paradigm for Vascular Smooth Muscle Signaling. <i>Antioxidants and Redox Signaling</i> , 2010, 12, 657-674.	2.5	114
26	New developments in the signaling mechanisms of the store-operated calcium entry pathway. <i>Pflügers Archiv European Journal of Physiology</i> , 2008, 457, 405-415.	1.3	106
27	Store-Independent Orai1/3 Channels Activated by Intracrine LeukotrieneC ₄ . <i>Circulation Research</i> , 2013, 112, 1013-1025.	2.0	106
28	Complex functions of phosphatidylinositol 4,5-bisphosphate in regulation of TRPC5 cation channels. <i>Pflügers Archiv European Journal of Physiology</i> , 2009, 457, 757-769.	1.3	105
29	STIM and Orai proteins as novel targets for cancer therapy. A Review in the Theme: Cell and Molecular Processes in Cancer Metastasis. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 309, C457-C469.	2.1	102
30	miR-424/322 regulates vascular smooth muscle cell phenotype and neointimal formation in the rat. <i>Cardiovascular Research</i> , 2013, 98, 458-468.	1.8	101
31	The Orai1 Store-operated Calcium Channel Functions as a Hexamer. <i>Journal of Biological Chemistry</i> , 2016, 291, 25764-25775.	1.6	97
32	The Induction of Yes-Associated Protein Expression After Arterial Injury Is Crucial for Smooth Muscle Phenotypic Modulation and Neointima Formation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 2662-2669.	1.1	94
33	Multiple types of calcium channels arising from alternative translation initiation of the <i>Orai1</i> message. <i>Science Signaling</i> , 2015, 8, ra74.	1.6	94
34	Impedance analysis of GPCR-mediated changes in endothelial barrier function: overview and fundamental considerations for stable and reproducible measurements. <i>Pflügers Archiv European Journal of Physiology</i> , 2015, 467, 2193-2218.	1.3	93
35	A Novel Role for Epidermal Growth Factor Receptor Tyrosine Kinase and Its Downstream Endoplasmic Reticulum Stress in Cardiac Damage and Microvascular Dysfunction in Type 1 Diabetes Mellitus. <i>Hypertension</i> , 2012, 60, 71-80.	1.3	90
36	The native ORAI channel trio underlies the diversity of Ca ²⁺ signaling events. <i>Nature Communications</i> , 2020, 11, 2444.	5.8	90

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37	Mitochondria control store-operated Ca ²⁺ entry through Na ⁺ and redox signals. <i>EMBO Journal</i> , 2017, 36, 797-815.	3.5	82
38	Mechanisms of Phospholipase C-Regulated Calcium Entry. <i>Current Molecular Medicine</i> , 2004, 4, 291-301.	0.6	78
39	The STIM1-binding site nexus remotely controls Orai1 channel gating. <i>Nature Communications</i> , 2016, 7, 13725.	5.8	77
40	Mitochondrial Calcium Regulation of Redox Signaling in Cancer. <i>Cells</i> , 2020, 9, 432.	1.8	77
41	STIM/Orai signalling complexes in vascular smooth muscle. <i>Journal of Physiology</i> , 2012, 590, 4201-4208.	1.3	76
42	TRPC channels in smooth muscle cells. <i>Frontiers in Bioscience - Landmark</i> , 2010, 15, 1023.	3.0	75
43	STIM1 Controls Endothelial Barrier Function Independently of Orai1 and Ca ²⁺ Entry. <i>Science Signaling</i> , 2013, 6, ra18.	1.6	75
44	Enhanced NF- κ B Activity Impairs Vascular Function Through PARP-1 ⁺ , SP-1 ⁺ , and COX-2 ⁺ Dependent Mechanisms in Type 2 Diabetes. <i>Diabetes</i> , 2013, 62, 2078-2087.	0.3	74
45	A calcium/cAMP signaling loop at the ORAI1 mouth drives channel inactivation to shape NFAT induction. <i>Nature Communications</i> , 2019, 10, 1971.	5.8	73
46	Distinct pharmacological profiles of ORAI1, ORAI2, and ORAI3 channels. <i>Cell Calcium</i> , 2020, 91, 102281.	1.1	71
47	Complex role of STIM1 in the activation of store-independent Orai1/3 channels. <i>Journal of General Physiology</i> , 2014, 143, 345-359.	0.9	70
48	Crosslink between calcium and sodium signalling. <i>Experimental Physiology</i> , 2018, 103, 157-169.	0.9	70
49	Airway smooth muscle STIM1 and Orai1 are upregulated in asthmatic mice and mediate PDGF-activated SOCE, CRAC currents, proliferation, and migration. <i>Pflügers Archiv European Journal of Physiology</i> , 2012, 464, 481-492.	1.3	69
50	Orai Calcium Channels. <i>Physiology</i> , 2017, 32, 332-342.	1.6	68
51	Urotensin-II promotes vascular smooth muscle cell proliferation through store-operated calcium entry and EGFR transactivation. <i>Cardiovascular Research</i> , 2013, 100, 297-306.	1.8	67
52	Redox Control of the Senescence Regulator Interleukin-1 β and the Secretory Phenotype. <i>Journal of Biological Chemistry</i> , 2013, 288, 32149-32159.	1.6	65
53	Cross-linking of Orai1 channels by STIM proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3398-E3407.	3.3	60
54	Omnitemporal choreographies of all five STIM/Orai and IP3Rs underlie the complexity of mammalian Ca ²⁺ signaling. <i>Cell Reports</i> , 2021, 34, 108760.	2.9	57

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55	The Role of Canonical Transient Receptor Potential 7 in B-cell Receptor-activated Channels. <i>Journal of Biological Chemistry</i> , 2005, 280, 35346-35351.	1.6	55
56	Induction of store-operated calcium entry (SOCE) suppresses glioblastoma growth by inhibiting the Hippo pathway transcriptional coactivators YAP/TAZ. <i>Oncogene</i> , 2019, 38, 120-139.	2.6	55
57	Mechanisms of STIM1 Activation of Store-Independent Leukotriene C ₄ -Regulated Ca ²⁺ Channels. <i>Molecular and Cellular Biology</i> , 2013, 33, 3715-3723.	1.1	53
58	Physiological Functions of CRAC Channels. <i>Annual Review of Physiology</i> , 2022, 84, 355-379.	5.6	53
59	Enhanced Ca ²⁺ entry due to Orai1 plasma membrane insertion increases IL-8 secretion by cystic fibrosis airways. <i>FASEB Journal</i> , 2011, 25, 4274-4291.	0.2	51
60	Essential Role of Smooth Muscle STIM1 in Hypertension and Cardiovascular Dysfunction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 1900-1909.	1.1	48
61	Calcium/Calmodulin-dependent Protein Kinase II Delta 6 (CaMKII δ) and RhoA Involvement in Thrombin-induced Endothelial Barrier Dysfunction. <i>Journal of Biological Chemistry</i> , 2010, 285, 21303-21312.	1.6	47
62	Emerging Roles for Native Orai Ca ²⁺ Channels in Cardiovascular Disease. <i>Current Topics in Membranes</i> , 2013, 71, 209-235.	0.5	46
63	CD4 +CD25 +Foxp3 regulatory T cells and vascular dysfunction in hypertension. <i>Journal of Hypertension</i> , 2013, 31, 1939-1943.	0.3	46
64	The lysosomal TRPML1 channel regulates triple negative breast cancer development by promoting mTORC1 and purinergic signaling pathways. <i>Cell Calcium</i> , 2019, 79, 80-88.	1.1	46
65	Efficient laboratory-scale production of monoclonal antibodies using membrane-based high-density cell culture technology. <i>Journal of Immunological Methods</i> , 1999, 230, 59-70.	0.6	45
66	Orai channel-mediated Ca ²⁺ signals in vascular and airway smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 310, C402-C413.	2.1	45
67	Poly(ADP-Ribose) Polymerase 1 Inhibition Improves Coronary Arteriole Function in Type 2 Diabetes Mellitus. <i>Hypertension</i> , 2012, 59, 1060-1068.	1.3	44
68	What Role for Store-Operated Ca ²⁺ Entry in Muscle?. <i>Microcirculation</i> , 2013, 20, 330-336.	1.0	42
69	Novel Protein Kinase C-Mediated Control of Orai1 Function in Invasive Melanoma. <i>Molecular and Cellular Biology</i> , 2015, 35, 2790-2798.	1.1	42
70	Calcium Signaling Is Dispensable for Receptor Regulation of Endothelial Barrier Function. <i>Journal of Biological Chemistry</i> , 2016, 291, 22894-22912.	1.6	40
71	Oligomeric State of the Colon Carcinoma-associated Glycoprotein GA733-2 (Ep-CAM/EGP40) and Its Role in GA733-mediated Homotypic Cell-Cell Adhesion. <i>Journal of Biological Chemistry</i> , 2001, 276, 2299-2309.	1.6	39
72	Emerging roles of Orai3 in pathophysiology. <i>Channels</i> , 2013, 7, 392-401.	1.5	39

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73	Dichotomous role of the human mitochondrial Na ⁺ /Ca ²⁺ /Li ⁺ exchanger NCLX in colorectal cancer growth and metastasis. <i>ELife</i> , 2020, 9, .	2.8	39
74	Protection of TRPC7 cation channels from calcium inhibition by closely associated SERCA pumps. <i>FASEB Journal</i> , 2006, 20, 503-505.	0.2	38
75	L-type Ca ²⁺ channel blockers promote vascular remodeling through activation of STIM proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17369-17380.	3.3	37
76	Improved four-color flow cytometry method using fluo-3 and triple immunofluorescence for analysis of intracellular calcium ion ([Ca ²⁺] _i) fluxes among mouse lymph node B- and T-lymphocyte subsets. , 1996, 23, 205-217.		36
77	Emergence of Orai3 activity during cardiac hypertrophy. <i>Cardiovascular Research</i> , 2015, 105, 248-259.	1.8	36
78	Cross-talk between N-terminal and C-terminal domains in stromal interaction molecule 2 (STIM2) determines enhanced STIM2 sensitivity. <i>Journal of Biological Chemistry</i> , 2019, 294, 6318-6332.	1.6	36
79	Mitochondrial Calcium Uniporter Drives Metastasis and Confers a Targetable Cystine Dependency in Pancreatic Cancer. <i>Cancer Research</i> , 2022, 82, 2254-2268.	0.4	36
80	Low-Voltage-Activated Ca ^v 3.1 Calcium Channels Shape T Helper Cell Cytokine Profiles. <i>Immunity</i> , 2016, 44, 782-794.	6.6	35
81	Leukotriene-C4 Synthase, a Critical Enzyme in the Activation of Store-independent Orai1/Orai3 Channels, Is Required for Neointimal Hyperplasia. <i>Journal of Biological Chemistry</i> , 2015, 290, 5015-5027.	1.6	33
82	The Mitochondrial Ca ²⁺ uniporter is a central regulator of interorganellar Ca ²⁺ transfer and NFAT activation. <i>Journal of Biological Chemistry</i> , 2021, 297, 101174.	1.6	30
83	Redox-control of the alarmin, Interleukin-1 β . <i>Redox Biology</i> , 2013, 1, 218-225.	3.9	28
84	STIM1/Orai1, <i>CRAC</i> , and Endothelial SOC. <i>Circulation Research</i> , 2009, 104, e56-7.	2.0	27
85	ORAI channels in cellular remodeling of cardiorespiratory disease. <i>Cell Calcium</i> , 2019, 79, 1-10.	1.1	27
86	A New Selective Pharmacological Enhancer of the Orai1 Ca ²⁺ Channel Reveals Roles for Orai1 in Smooth and Skeletal Muscle Functions. <i>ACS Pharmacology and Translational Science</i> , 2020, 3, 135-147.	2.5	27
87	Cardiovascular and Hemostatic Disorders: Role of STIM and Orai Proteins in Vascular Disorders. <i>Advances in Experimental Medicine and Biology</i> , 2017, 993, 425-452.	0.8	25
88	The remote allosteric control of Orai channel gating. <i>PLoS Biology</i> , 2019, 17, e3000413.	2.6	25
89	Differential role for stromal interacting molecule 1 in the regulation of vascular function. <i>Pflugers Archiv European Journal of Physiology</i> , 2015, 467, 1195-1202.	1.3	24
90	STIM1-dependent peripheral coupling governs the contractility of vascular smooth muscle cells. <i>ELife</i> , 2022, 11, .	2.8	23

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91	Signalling Mechanisms for TRPC3 Channels. Novartis Foundation Symposium, 2008, , 123-139.	1.2	22
92	STIM1 and Orai1: novel targets for vascular diseases?. Science China Life Sciences, 2011, 54, 780-785.	2.3	22
93	Functional communication between IP ₃ R and STIM2 at subthreshold stimuli is a critical checkpoint for initiation of SOCE. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	22
94	The anatomy of native CRAC channel(s). Current Opinion in Physiology, 2020, 17, 89-95.	0.9	21
95	STIM1 is a core trigger of airway smooth muscle remodeling and hyperresponsiveness in asthma. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	21
96	Increased cAMP levels and protein kinase (PKA) type I activation in CD4+ T cells and B cells contribute to the retrovirus-induced immunodeficiency of mice (MAIDS). A useful in vivo model for drug testing in PKA type I-induced immunodeficiency. FASEB Journal, 2001, 15, 1466-1468.	0.2	20
97	The puzzling role of TRPC3 channels in motor coordination. Pflugers Archiv European Journal of Physiology, 2010, 459, 369-375.	1.3	20
98	Chronic Inhibition of Epidermal Growth Factor Receptor Tyrosine Kinase and Extracellular Signal-Regulated Kinases 1 and 2 (ERK1/2) Augments Vascular Response to Limb Ischemia in Type 2 Diabetic Mice. American Journal of Pathology, 2012, 180, 410-418.	1.9	20
99	Oncogenic KRAS suppresses store-operated Ca ²⁺ entry and ICRAC through ERK pathway-dependent remodelling of STIM expression in colorectal cancer cell lines. Cell Calcium, 2018, 72, 70-80.	1.1	20
100	Vascular Balloon Injury and Intraluminal Administration in Rat Carotid Artery. Journal of Visualized Experiments, 2014, , .	0.2	18
101	Revisiting the physiological effects of methylene blue as a treatment of cyanide intoxication. Clinical Toxicology, 2018, 56, 828-840.	0.8	18
102	Pore properties of Orai1 calcium channel dimers and their activation by the STIM1 ER calcium sensor. Journal of Biological Chemistry, 2018, 293, 12962-12974.	1.6	18
103	Canonical transient receptor potential channels in disease: targets for novel drug therapy?. Drug Discovery Today, 2006, 11, 924-930.	3.2	15
104	Signalling mechanisms for TRPC3 channels. Novartis Foundation Symposium, 2004, 258, 123-33; discussion 133-9, 155-9, 263-6.	1.2	15
105	Francisella tularensis Catalase Restricts Immune Function by Impairing TRPM2 Channel Activity. Journal of Biological Chemistry, 2016, 291, 3871-3881.	1.6	14
106	NCLX pumps up the heat. Cell Calcium, 2020, 92, 102280.	1.1	12
107	Cardiac-specific Deletion of Orai3 Leads to Severe Dilated Cardiomyopathy and Heart Failure in Mice. Journal of the American Heart Association, 2021, 10, e019486.	1.6	12
108	Orai channel C-terminal peptides are key modulators of STIM-Orai coupling and calcium signal generation. Cell Reports, 2021, 35, 109322.	2.9	12

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109	PKC- ϵ pseudosubstrate and catalytic activity are necessary for membrane delivery during IgG-mediated phagocytosis. <i>Journal of Leukocyte Biology</i> , 2013, 94, 109-122.	1.5	11
110	Golgi-Associated Protein Kinase C- μ Is Delivered to Phagocytic Cups: Role of Phosphatidylinositol 4-Phosphate. <i>Journal of Immunology</i> , 2017, 199, 271-277.	0.4	9
111	Lipidic synthetic alkaloids as SK3 channel modulators. Synthesis and biological evaluation of 2-substituted tetrahydropyridine derivatives with potential anti-metastatic activity. <i>European Journal of Medicinal Chemistry</i> , 2020, 186, 111854.	2.6	9
112	Crth2 receptor signaling down-regulates lipopolysaccharide-induced NF- κ B activation in murine macrophages <i>via</i> changes in intracellular calcium. <i>FASEB Journal</i> , 2019, 33, 12838-12852.	0.2	8
113	A protocol for detecting elemental calcium signals (Ca ²⁺ puffs) in mammalian cells using total internal reflection fluorescence microscopy. <i>STAR Protocols</i> , 2021, 2, 100618.	0.5	8
114	The anatomy of CRAC channel(s). <i>Current Opinion in Physiology</i> , 2020, 17, 89-95.	0.9	8
115	Curcumin and NCLX inhibitors share anti-tumoral mechanisms in microsatellite-instability-driven colorectal cancer. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 284.	2.4	8
116	Ca ²⁺ channels in cancer. <i>Cell Calcium</i> , 2019, 84, 102083.	1.1	7
117	Store-Independent Orai Channels Regulated by STIM. , 2017, , 197-214.		7
118	PKC- μ regulates vesicle delivery and focal exocytosis for efficient IgG-mediated phagocytosis. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	5
119	The airway smooth muscle sodium/calcium exchanger NCLX is critical for airway remodeling and hyperresponsiveness in asthma. <i>Journal of Biological Chemistry</i> , 2022, 298, 102259.	1.6	5
120	A sacrificial process for fabrication of biodegradable polymer membranes with submicron thickness. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 1192-1201.	1.6	4
121	Ca ²⁺ homeostasis and cancer. <i>Cell Calcium</i> , 2019, 84, 102084.	1.1	3
122	Study of the Endogenous CRAC Channel Using shRNA-Mediated Gene Silencing. <i>Methods in Molecular Biology</i> , 2018, 1843, 137-145.	0.4	0
123	Membrane Transport Arachidonic Acid (Leukotriene C4) Regulated Calcium Channel. , 2021, , 925-931.		0
124	Rheumatoid arthritis: Relief of IKAROS transcriptional repression of Orai3 in T-cells. <i>Cell Calcium</i> , 2021, 97, 102409.	1.1	0
125	Nuclear Factor kappa B (NF κ B) Inhibition Improves Vascular Function in Type 2 Diabetic Mice. <i>FASEB Journal</i> , 2012, 26, .	0.2	0
126	Abstract 518: Inhibition of Endoplasmic Reticulum Stress Reduces Aneurysm Induction in Different Aneurysms Models. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, .	1.1	0

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127	Abstract 3781: Expression of ovarian cancer specific Drp1 splice variants regulate mitochondrial heterogeneity and cell plasticity during tumor progression. Cancer Research, 2022, 82, 3781-3781.	0.4	0